

WHAT IS CLAIMED IS:

1. A cell phone charger of a USB interface, wherein the USB interface supplies a 5V DC voltage to the charging circuit as an input voltage, and the input voltage is split into two paths, one of the paths includes a first 5 resistor with one end serially connected to an emitter of a PNP transistor and the other end connected to the input voltage, and the other of the paths includes a first diode and a second diode serially connected together, the first diode includes a positive electrode connected to the input voltage, the second diode includes a negative electrode connected to a base of the transistor, and 10 a collector of the transistor serves as a output voltage terminal, the base of the transistor forms a common base topology by connecting a grounded second resistor.
2. The cell phone charger according to Claim 1, wherein the transistor comprises a bipolar transistor.
- 15 3. The cell phone charger according to Claim 1, wherein the output voltage terminal is connected to a filter capacitor.
4. The cell phone charger according to Claim 1, wherein the transistor is biased to saturation.